

Amendment to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

Claims 1-17: canceled.

18. (Currently Amended) A system, comprising:
an optical illumination module to project an illumination beam;
a mask located in a path of the illumination beam and having an optical pattern to superimpose the optical pattern on the illumination beam;
an optical imaging module located to receive the patterned illumination beam and to focus the patterned illumination beam to an imaging plane;
a wafer stage to hold a wafer at the imaging plane; and
an immersion liquid comprising a siloxane polymer and filled between the wafer and the optical imaging module to transmit the patterned illumination beam to the wafer,

~~The system as in claim 15,~~ wherein the polymer comprises $[-\text{Si}(\text{CH}_3)_2\text{-O-Si}(\text{CH}_3)_2\text{-O-}]_x\text{-Poly}(\text{tButoxyl Acrylate})_y$, where x and y are integers.

Claims 19-30: canceled.

31. (New) The system as in claim 18, wherein the immersion liquid comprises:

water; and

an additive added to the water and comprising a surfactant.

32. (New) The system as in claim 31, wherein the surfactant comprises a moiety that has carbon or silicon.

33. (New) The system as in claim 18, wherein the immersion liquid comprises:

water; and

an additive added to the water and comprising a photo acid generator.

34. (New) The system as in claim 33, wherein the photo acid generator comprises an aryl.

35. (New) The system as in claim 18, wherein the immersion liquid comprises::

water; and

an additive added to the water and comprising a base.

36. (New) The system as in claim 35, wherein the base comprises alkyl.

37. (New) The system as in claim 18, wherein the immersion liquid comprises::

water; and

an additive added to the water and comprising a buffer.

38. (New) The system as in claim 37, wherein the buffer comprises a mixture of a salt and an acid.

39. (New) The system as in claim 18, wherein the immersion liquid comprises::

water; and

an additive added to the water and comprising a salt.

40. (New) The system as in claim 39, wherein the salt is an ammonium salt.

41. (New) The system as in claim 18, wherein the immersion liquid comprises::

water; and

an additive added to the water and comprising a plasticizer.

42. (New) The system as in claim 41, wherein the plasticizer comprises a moiety that comprises carbon or silicon.